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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/031,767	02/27/1998	KAZUHIKO HATANO	35.C12600	9089
5514 7	590 03/11/2004		EXAMINER	
	CK CELLA HARPER &	TILLERY, RASHAWN N		
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
,			2612	_
			DATE MAILED: 03/11/2004	22

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
,	09/031,767	HATANO, KAZUHIKO				
Office Action Summary	Examiner	Art Unit				
	Rashawn N Tillery	2612				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS a, cause the application to become ABAN	by be timely filed 10) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 06 J	anuarv 2004.					
<u> </u>	s action is non-final.					
3) Since this application is in condition for allowa						
Disposition of Claims						
4) ☐ Claim(s) 16-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 16-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers	·					
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum	mary (PTO-413) ail Date				
Paper No(s)/Mail Date		mal Patent Application (PTO-152)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

Response to Arguments

- 1. Applicant's arguments, see paper #21, filed January 6, 2004, with respect to the 112 rejection have been fully considered and are persuasive. The rejection of claims 16-20 has been withdrawn.
- 2. Applicant's arguments with respect to the 103 rejection of claims 16-17 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Michael et al (US4272787).

Michael teaches a T.V. picture freeze system capable of capturing a video frame comprising first and second fields, frame storage for storing information from the first and second fields, a movement detector storage for storing data indicative of any movement detected and a selector for selectively outputting information from a single

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field or both fields depending on the stored movement data (see col. 2, lines 43-68). Moreover, if no movement has been detected, information from both fields is used; however, if movement has occurred, only a single field is used.

Regarding claim 16, Michael discloses, in figure 2, an image pickup apparatus comprising:

an image sensor (inherent feature) that picks up an image corresponding to an optical image, and produces a first field image signal and a second field image signal different from the first field image signal (see examiner's notes above);

a synthesizing circuit (18) that synthesizes the first field image signal and the second field image signal to form a synthesized image signal (the examiner notes that synthesizing, as defined by Merriam Webster's Collegiate Dictionary, tenth edition, is "the composition or combination of parts or elements so as to form a whole." Thus, Michael teaches, in figure 2, "synthesizing" two inputted fields, in read selector 18, to form a single frame);

a detecting circuit (23) that detects an amount of motion vector and produces a detection signal in comparison with a predetermined threshold level; and

a control circuit (18) that selects a non-synthesizing mode or a synthesizing mode of operation in response to the detection signal from the detecting circuit (the examiner notes that Michael's non-synthesizing mode is when no motion has been detected and a single field is output; the synthesizing mode is when motion is detected and two field image signals are combined).

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Regarding claim 17, Michael inherently teaches the first field image signal and the second field image signal are sequential signals since the fields compose a single frame.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michael in view of Takahashi et al (US5162914).

Regarding claims 18 and 19, Michael teaches a T.V. picture freeze system capable of capturing a video frame comprising first and second fields, frame storage for storing information from the first and second fields, a movement detector storage for storing data indicative of any movement detected and a selector for selectively outputting information from a single field or both fields depending on the stored movement data. Michael does not expressly disclose a difference in exposures of the fields. Takahashi teaches an image sensing device capable of forming a picture from a plurality of pictures of different exposures obtained in a single field (see col. 6, lines 48-55). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Michael's device by implementing Takahashi's teachings. It would have been highly desirable for Michael to be able to create a single field image

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signal taken at different exposure periods. One would have been motivated to do so in an effort to produce a more complete image signal.

Regarding claim 20, Michael does not expressly disclose producing one field image signal by selecting a proper exposure part of the first field image signal and a proper exposure part of the second field image signal. Takahashi, however, reveals that it is well known in the art to combine portions of image signals taken at different exposures to produce a single field image signal. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Michael's teachings of outputting a single field image, since Michael clearly outputs an image with less data (only half of a frame is selected), by Takahashi's teachings. It would have been highly desirable for Michael to be able to create a single field image signal taken at different exposure periods by combining portions of each field. One would have been motivated to do so in an effort to produce a more complete image signal.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashawn N Tillery whose telephone number is 703-305-0627. The examiner can normally be reached on 9AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RNT